

Title (en)

METHOD AND DEVICE FOR OPTIMIZING THE POSITION OF THE STRINGS ON STRINGED AND PLUCKED INSTRUMENTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR OPTIMIERUNG DER SAITENLAGE VON ZUPF- UND STREICHINSTRUMENTEN

Title (fr)

PROCEDE ET DISPOSITIF POUR OPTIMISER LA POSITION DES CORDES SUR DES INSTRUMENTS A CORDES FROTTEES ET A CORDES PINCEES

Publication

EP 0892973 A2 19990127 (DE)

Application

EP 98912239 A 19980210

Priority

- DE 9800443 W 19980210
- DE 29703290 U 19970211

Abstract (en)

[origin: CA2251063A1] The invention relates to a method for improving playability of stringed and plucked instruments, specially guitars, comprising strings (10) which are stretched accord a fretted or fretless finger board (7), wherein the profile of the finger board surface is measured underneath each individual tightened string. The optimum form of the finger board surface is determined for each string by a computer on the basis of string parameters, the aim being to keep the distance between the strings and the fret surfaces (11) to a minimum, without impeding the vibration of the strings. Subsequently, the differences between the calculated and real finger board surface profile are compensated by a computer-controlled machine. The instrument which is tuned with high precision and adjusted to a minimum string position is characterized by excellent playability and clear intonation.

IPC 1-7

G10D 3/00; **G10D 3/06**

IPC 8 full level

B23Q 9/00 (2006.01); **G10D 1/04** (2020.01); **G10D 3/00** (2006.01); **G10D 3/06** (2020.01)

CPC (source: EP US)

B23Q 9/02 (2013.01 - EP US); **G10D 1/04** (2013.01 - EP US); **G10D 3/06** (2013.01 - EP US)

Citation (search report)

See references of WO 9835338A2

Cited by

CN103286830A; CN104907930A; WO2006077422A1

Designated contracting state (EPC)

DE ES FR GB

DOCDB simple family (publication)

DE 29703290 U1 19970814; CA 2251063 A1 19980813; CA 2251063 C 20050111; DE 59804856 D1 20020829; EP 0892973 A2 19990127; EP 0892973 B1 20020724; ES 2181188 T3 20030216; US 6114618 A 20000905; WO 9835338 A2 19980813; WO 9835338 A3 19981119

DOCDB simple family (application)

DE 29703290 U 19970211; CA 2251063 A 19980210; DE 59804856 T 19980210; DE 9800443 W 19980210; EP 98912239 A 19980210; ES 98912239 T 19980210; US 17106199 A 19990416